Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET



# Barrier 90 Comp B

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### **1.1 Product identifier**

| Product name                     | : Barrier 90 Comp B |
|----------------------------------|---------------------|
| Product code                     | : 2524              |
| Product description              | : Hardener.         |
| Product type                     | : Liquid.           |
| Other means of<br>identification | : Not available.    |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use in coatings - Industrial use Use in coatings - Professional use

### 1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England Tel: +44 17 24 40 00 00

Fax: +44 17 24 40 01 00

### 1.4 Emergency telephone number

| National advisory body/Poison Centre |  |  |  |  |
|--------------------------------------|--|--|--|--|
| Telephone number                     | : Contact NHS Direct; phone 0845 4647 or 111. Open 24/7. |  |  |  |
| <u>Supplier</u>                      |  |  |  |  |
| Telephone number                     | : +47 33 45 70 00 Jotun Norway (head office)             |  |  |  |

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Product definition : Mixture

### **Classification according to UK CLP/GHS**

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

# **SECTION 2: Hazards identification**

| Hazard pictograms   |  |  |
|---|--|--|
| Signal word   | iger.  | • •  |
| Hazard statements   | <ul> <li>6 - Flammable liquid</li> <li>5 - Causes skin irritat</li> <li>7 - May cause an alle</li> <li>8 - Causes serious et</li> <li>1 - Toxic to aquatic life</li> </ul> | ion.<br>rgic skin reaction.  |
| Precautionary statements  |  |  |
| General   | applicable.  |  |
| Prevention  |  |  |
| Response  | 2 + P352 - IF ON SKI<br>3 + P313 - If skin irrita<br>5 + P351 + P338, P3<br>utes. Remove contact   | ontaminated clothing and wash it before reuse.<br>N: Wash with plenty of water.<br>ation or rash occurs: Get medical advice or attention.<br>10 - IF IN EYES: Rinse cautiously with water for several<br>lenses, if present and easy to do. Continue rinsing.<br>N CENTER or doctor. |
| Storage   | applicable.  |  |
| Disposal  | 1 - Dispose of conten<br>onal and international  | ts and container in accordance with all local, regional, regulations.  |
| Supplemental label elements   | applicable.  |  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | applicable.  |  |
| Special packaging requirem  |  |  |
| Containers to be fitted<br>with child-resistant<br>fastenings   | applicable.  |  |
| Tactile warning of danger   | applicable.  |  |
| 2.3 Other hazards   |  |  |
| Product meets the criteria<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | s mixture does not cor<br>B.   | ntain any substances that are assessed to be a PBT or a  |
| Other hazards which do not result in classification   | e known.   |  |

| .2 Mixtures : Mixture  |  |           |   |         |
|--|--|-----------|---|---------|
| Product/ingredient name  | Identifiers  | %         | Classification  | Туре    |
| Atty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine | REACH #:<br>01-2119972320-44<br>EC: 500-191-5<br>CAS: 68082-29-1                       | ≥50 - ≤75 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Chronic 2,<br>H411  | [1]     |
| xylene   | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥10 - <20 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412 | [1] [2] |
| 1-methoxy-2-propanol   | REACH #:<br>01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3  | ≥10 - <20 | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| ethylbenzene   | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | <10       | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412  | [1] [2] |
| Amines, polyethylenepoly-,<br>triethylenetetramine fraction                                  | REACH #:<br>01-2119487919-13<br>EC: 292-588-2<br>CAS: 90640-67-8                       | <1        | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3,<br>H412<br>EUH071                                 | [1]     |
|  |  |           | See Section 16 for<br>the full text of the H<br>statements declared<br>above.   |         |

# **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the

concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

| SECTION 4: First aid measures |   |  |  |  |
|-------------------------------|---|--|--|--|
| Inhalation                    | : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |  |  |  |
| Skin contact                  | : Get medical attention immediately. Call a poison center or physician. Wash with<br>plenty of soap and water. Remove contaminated clothing and shoes. Wash<br>contaminated clothing thoroughly with water before removing it, or wear gloves.<br>Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly<br>by a physician. In the event of any complaints or symptoms, avoid further exposure.<br>Wash clothing before reuse. Clean shoes thoroughly before reuse.   |  |  |  |
| Ingestion                     | : Get medical attention immediately. Call a poison center or physician. Wash out<br>mouth with water. Remove dentures if any. If material has been swallowed and th<br>exposed person is conscious, give small quantities of water to drink. Stop if the<br>exposed person feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the head should<br>be kept low so that vomit does not enter the lungs. Chemical burns must be treated<br>promptly by a physician. Never give anything by mouth to an unconscious person.<br>If unconscious, place in recovery position and get medical attention immediately.<br>Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or<br>waistband.   |  |  |  |
| Protection of first-aiders    | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.   |  |  |  |

### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

#### Over-exposure signs/symptoms

| Eye contact | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness |
|-------------|--|
| Inhalation  | : No specific data.  |

| SECTION 4: First aid measures |  |  |  |  |
|-------------------------------|--|--|--|--|
| Skin contact                  | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur   |  |  |  |
| Ingestion                     | : Adverse symptoms may include the following: stomach pains  |  |  |  |
| 4.3 Indication of any imm     | ediate medical attention and special treatment needed  |  |  |  |
| Notes to physician            | : In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours. |  |  |  |
| Specific treatments           | : No specific treatment.   |  |  |  |

### See toxicological information (Section 11)

| SECTION 5: Firefighting measures                           |  |  |  |
|--|--|--|--|
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.   |  |  |
| Unsuitable extinguishing media                             | : Do not use water jet.  |  |  |
| 5.2 Special hazards arising f                              | rom the substance or mixture   |  |  |
| Hazards from the substance or mixture                      | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |  |  |
| Hazardous combustion products                              | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides  |  |  |
| 5.3 Advice for firefighters                                |  |  |  |
| Special protective actions for fire-fighters               | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |  |  |
| Special protective<br>equipment for fire-fighters          | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |  |  |

# SECTION 6: Accidental release measures

| 6.1 Personal precautions, protective equipment and emergency procedures |   |  |  |
|---|---|--|--|
| For non-emergency<br>personnel  | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Do not breathe vapour or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment. |  |  |
| For emergency responders  | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |  |  |

| SECTION 6: Accidental release measures |  |  |  |
|--|--|--|--|
| 6.2 Environmental precautions          | : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful<br>to the environment if released in large quantities. Collect spillage.  |  |  |
| 6.3 Methods and material fo            | containment and cleaning up  |  |  |
| Small spill                            | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |  |  |
| Large spill                            | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |  |  |
| 6.4 Reference to other sections        | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |  |  |

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

### Danger criteria

# **SECTION 7: Handling and storage**

|  | Notification and MAPP threshold | Safety report threshold  |
|--|---------------------------------|--------------------------|
|  | 5000 tonne<br>200 tonne         | 50000 tonne<br>500 tonne |

See Technical Data Sheet / packaging for further information.

# 7.3 Specific end use(s)

**Recommendations** 

: Not available.

Industrial sector specific solutions

: Not available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational exposure limits**

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| Viene                   | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,<br>p- or mixed isomers] Absorbed through skin. |
|                         | STEL: 441 mg/m <sup>3</sup> 15 minutes.  |
|                         | STEL: 100 ppm 15 minutes.  |
|                         | TWA: 220 mg/m <sup>3</sup> 8 hours.  |
|                         | TWA: 50 ppm 8 hours.   |
| 1-methoxy-2-propanol    | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed   |
|                         | through skin.  |
|                         | STEL: 560 mg/m <sup>3</sup> 15 minutes.  |
|                         | STEL: 150 ppm 15 minutes.  |
|                         | TWA: 375 mg/m <sup>3</sup> 8 hours.  |
|                         | TWA: 100 ppm 8 hours.  |
| ethylbenzene            | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed   |
|                         | through skin.  |
|                         | STEL: 552 mg/m <sup>3</sup> 15 minutes.  |
|                         | STEL: 125 ppm 15 minutes.  |
|                         | TWA: 100 ppm 8 hours.  |
|                         | TWA: 441 mg/m <sup>3</sup> 8 hours.  |

#### **Biological exposure indices**

| Product/ingredient name | Exposure indices   |
|-------------------------|--|
| <b>x</b> ylene          | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-,<br>m-, p- or mixed isomers]<br>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine].<br>Sampling time: post shift. |

**Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous procedures substances will also be required.

# **DNELs/DMELs**

| Product/ingredient name  | Туре    | Exposure                | Value                       | Population            | Effects       |
|--|---------|-------------------------|-----------------------------|-----------------------|---------------|
| Atty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine | DNEL    | Long term Oral          | 97.2 µg/kg<br>bw/day        | General population    | Systemic      |
| ,  | DNEL    | Long term Dermal        | 97.2 µg/kg<br>bw/day        | General population    | Systemic      |
|  | DNEL    | Long term<br>Inhalation | 0.169 mg/<br>m <sup>3</sup> | General<br>population | Systemic      |
|  | DNEL    | Long term Dermal        | 0.272 mg/<br>kg bw/day      | Workers               | Systemic      |
|  | DNEL    | Long term<br>Inhalation | 0.952 mg/<br>m <sup>3</sup> | Workers               | Systemic      |
| te of issue/Date of revision : 05.0  | 04.2024 | Date of previous issue  | 21.04.2                     | 023 V                 | ersion : 1.03 |

| xylene                       | DNEL  | Long term Oral           | 5 mg/kg                | General            | Systemic     |
|------------------------------|-------|--------------------------|------------------------|--------------------|--------------|
| луюне                        | DINEL |                          | bw/day                 | population         | Systemic     |
|                              | DNEL  | Long term                | 65.3 mg/m <sup>3</sup> | General            | Local        |
|                              |       | Inhalation               | 2010 mg/m              | population         |              |
|                              | DNEL  | Long term                | 65.3 mg/m <sup>3</sup> |                    | Systemic     |
|                              |       | Inhalation               |                        | population         | - ,          |
|                              | DNEL  | Long term Dermal         | 125 mg/kg              | General            | Systemic     |
|                              |       |                          | bw/day                 | population         |              |
|                              | DNEL  | Long term Dermal         | 212 mg/kg<br>bw/day    | Workers            | Systemic     |
|                              | DNEL  | Long term<br>Inhalation  | 221 mg/m³              | Workers            | Local        |
|                              | DNEL  | Long term                | 221 mg/m <sup>3</sup>  | Workers            | Systemic     |
|                              |       | Inhalation               | 260                    | Concret            |              |
|                              | DNEL  | Short term               | 260 mg/m <sup>3</sup>  | General            | Local        |
|                              |       | Inhalation<br>Short term | $260 \text{ mg/m}^3$   | population         | Systemia     |
|                              | DNEL  | Short term<br>Inhalation | 260 mg/m <sup>3</sup>  | General population | Systemic     |
|                              | DNEL  | Short term               | 442 mg/m <sup>3</sup>  | Workers            | Local        |
|                              |       | Inhalation               |                        | VV UINEIS          | LUGAI        |
|                              | DNEL  | Short term               | 442 mg/m <sup>3</sup>  | Workers            | Systemic     |
|                              |       | Inhalation               | g,                     |                    | e je te inte |
| 1-methoxy-2-propanol         | DNEL  | Long term Oral           | 33 mg/kg               | General            | Systemic     |
|                              |       |                          | bw/day                 | population         |              |
|                              | DNEL  | Long term                | 43.9 mg/m <sup>3</sup> | General            | Systemic     |
|                              |       | Inhalation               | Ŭ                      | population         |              |
|                              | DNEL  | Long term Dermal         | 78 mg/kg               | General            | Systemic     |
|                              |       |                          | bw/day                 | population         |              |
|                              | DNEL  | Long term Dermal         | 183 mg/kg<br>bw/day    | Workers            | Systemic     |
|                              | DNEL  | Long term<br>Inhalation  | 369 mg/m <sup>3</sup>  | Workers            | Systemic     |
|                              | DNEL  | Short term               | 553.5 mg/              | Workers            | Local        |
|                              |       | Inhalation               | m <sup>3</sup>         |                    |              |
|                              | DNEL  | Short term               | 553.5 mg/              | Workers            | Systemic     |
|                              |       | Inhalation               | m <sup>3</sup>         |                    |              |
| ethylbenzene                 | DMEL  | Long term                | 442 mg/m <sup>3</sup>  | Workers            | Local        |
|                              |       | Inhalation               | _                      |                    |              |
|                              | DMEL  | Short term               | 884 mg/m³              | Workers            | Systemic     |
|                              |       | Inhalation               | 4.0 "                  | <b>.</b> .         |              |
|                              | DNEL  | Long term Oral           | 1.6 mg/kg<br>bw/day    | General population | Systemic     |
|                              | DNEL  | Long term                | 15 mg/m³               | General            | Systemic     |
|                              |       | Inhalation               |                        | population         |              |
|                              | DNEL  | Long term                | 77 mg/m³               | Workers            | Systemic     |
|                              | האירי | Inhalation               | 180 mallia             | Workers            | Systemic     |
|                              | DNEL  | Long term Dermal         | 180 mg/kg<br>bw/day    | VVUINEIS           | Systemic     |
|                              | DNEL  | Short term               | 293 mg/m <sup>3</sup>  | Workers            | Local        |
|                              |       | Inhalation               |                        |                    |              |
| Amines, polyethylenepoly-,   | DNEL  | Long term                | 0.096 mg/              | General            | Systemic     |
| riethylenetetramine fraction |       | Inhalation               | m³                     | population         |              |
|                              | DNEL  | Long term Oral           | 0.14 mg/               | General            | Systemic     |
|                              |       |                          | kg bw/day              | population         |              |
|                              | DNEL  | Long term                | 0.54 mg/m <sup>3</sup> | Workers            | Systemic     |
|                              |       | Inhalation               |                        |                    |              |

# **PNECs**

| Product/ingredient name                                     | Compartment Detail    | Value           | Method Detail            |
|---|-----------------------|-----------------|--------------------------|
| <b>x</b> ylene  | Fresh water           | 0.327 mg/l      | -                        |
|   | Marine                | 0.327 mg/l      | -                        |
|   | Sewage Treatment      | 6.58 mg/l       | -                        |
|   | Plant                 | -               |                          |
|   | Fresh water sediment  | 12.46 mg/kg dwt | -                        |
|   | Marine water sediment | 12.46 mg/kg dwt | -                        |
|   | Soil                  | 2.31 mg/kg dwt  | -                        |
| 1-methoxy-2-propanol  | Fresh water           | 10 mg/l         | -                        |
|   | Marine                | 1 mg/l          | -                        |
|   | Sewage Treatment      | 100 mg/l        | -                        |
|   | Plant                 | -               |                          |
|   | Fresh water sediment  | 52.3 mg/kg dwt  | -                        |
|   | Marine water sediment | 5.2 mg/kg dwt   | -                        |
|   | Soil                  | 5.49 mg/kg dwt  | -                        |
| ethylbenzene  | Fresh water           | 0.1 mg/l        | -                        |
|   | Marine                | 0.01 mg/l       | -                        |
|   | Sewage Treatment      | 9.6 mg/l        | -                        |
|   | Plant                 | -               |                          |
|   | Fresh water sediment  | 13.7 mg/kg dwt  | -                        |
|   | Soil                  | 2.68 mg/kg dwt  | -                        |
|   | Secondary Poisoning   | 20 mg/kg        | -                        |
| Amines, polyethylenepoly-,<br>triethylenetetramine fraction | Fresh water           | 190 µg/l        | Assessment Factors       |
| ,                     | Fresh water sediment  | 95.9 mg/kg      | Equilibrium Partitioning |
|   | Marine water          | 38 µg/l         | Assessment Factors       |
|   | Marine water sediment | 19.2 mg/kg      | Equilibrium Partitioning |
|   | Soil                  | 19.1 mg/kg      | Equilibrium Partitioning |
|   | Sewage Treatment      | 4.25 mg/l       | Assessment Factors       |
|   | Secondary Poisoning   | 0.18 mg/kg      | Assessment Factors       |

# **SECTION 8: Exposure controls/personal protection**

#### 8.2 Exposure controls

| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.  |
|----------------------------------|---|
| Individual protection meas       | <u>ires</u>   |
| Hygiene measures                 | : Wash hands, forearms and face thoroughly after handling chemical products,<br>before eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location. |
| Eye/face protection              | : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.                                      |
| Skin protection                  |   |

# Skin protection

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly.

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|---|------------------------|--------------|----------------|------|
|---|------------------------|--------------|----------------|------|

# **SECTION 8: Exposure controls/personal protection**

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), Teflon (> 0.35 mm), 4H/Silver Shield® (> 0.07 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

| Body protection                 | Personal protective equipment for the body should be selected based on the being performed and the risks involved and should be approved by a speciali before handling this product. When there is a risk of ignition from static elect wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. | st                |
|---------------------------------|---|-------------------|
| Other skin protection           | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and shoul approved by a specialist before handling this product.   | d be              |
| Respiratory protection          | If workers are exposed to concentrations above the exposure limit, they must<br>respirator according to EN 140. Use respiratory mask with charcoal and dust<br>when spraying this product, according to EN 14387 (as filter combination A2-<br>confined spaces, use compressed-air or fresh-air respiratory equipment. Whe<br>of roller or brush, consider use of charcoalfilter.                 | filter<br>P2). In |
| Environmental exposure controls | Do not allow to enter drains or watercourses.   |                   |

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

# 9.1 Information on basic physical and chemical properties

| <u>Appearance</u>                            |   |
|--|---|
| Physical state                               | : Liquid.   |
| Colour                                       | : Yellowish-brown.  |
| Odour  | : Characteristic.   |
| Odour threshold                              | : Not applicable.   |
| Melting point/freezing point                 | : Not applicable.   |
| Initial boiling point and<br>boiling range   | : Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 130.22°C (266.4°F) |
| Flammability                                 | : Not applicable.   |
| Upper/lower flammability or explosive limits | : 0.8 - 13.74%  |
| Flash point                                  | : Closed cup: 27°C (80.6°F)   |
| Auto-ignition temperature                    | : Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).   |
| Decomposition temperature                    | : Not available.  |
| рН   | Not applicable.   |
| Viscosity                                    | : Kinematic (40°C): >20.5 mm²/s   |
| Solubility(ies)                              | 1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (   |

| e). Weighted |
|--------------|
| ompared      |
|              |
| 48 (Air = 1) |
|              |
|              |
|              |
|              |
|              |

### 9.2 Other information

No additional information.

| SECTION 10: Stability and reactivity       |  |  |
|--|--|--|
| 10.1 Reactivity                            | : No specific test data related to reactivity available for this product or its ingredients.                                     |  |
| 10.2 Chemical stability                    | : Stable under recommended storage and handling conditions (see Section 7).  |  |
| 10.3 Possibility of<br>hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.  |  |
| 10.4 Conditions to avoid                   | : When exposed to high temperatures may produce hazardous decomposition products.  |  |
| 10.5 Incompatible materials                | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |  |
| 10.6 Hazardous<br>decomposition products   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.        |  |

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

Acute toxicity

# **SECTION 11: Toxicological information**

| Product/ingredient name       | Result                 | Species               | Dose         | Exposure |
|-------------------------------|------------------------|-----------------------|--------------|----------|
| xylene                        | LC50 Inhalation Vapour | Rat                   | 11 mg/l      | 4 hours  |
|                               | LD50 Oral              | Rat                   | 4300 mg/kg   | -        |
|                               | TDLo Dermal            | Rabbit                | 4300 mg/kg   | -        |
| 1-methoxy-2-propanol          | LD50 Dermal            | Rabbit                | 13 g/kg      | -        |
|                               | LD50 Oral              | Rat                   | 6600 mg/kg   | -        |
| ethylbenzene                  | LC50 Inhalation Vapour | Rat - Male            | 11 mg/l      | 4 hours  |
|                               | LD50 Dermal            | Rabbit                | >5000 mg/kg  | -        |
|                               | LD50 Oral              | Rat                   | 3500 mg/kg   | -        |
| Amines, polyethylenepoly-,    | LD50 Dermal            | Rabbit - Male,        | 1465.4 mg/kg | -        |
| triethylenetetramine fraction |                        | Female                |              |          |
| ·                             | LD50 Oral              | Rat - Male,<br>Female | 1716.2 mg/kg | -        |

# Acute toxicity estimates

| Product/ingredient name                                  | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Barrier 90 Comp B  | N/A              | 5755.3            | N/A                            | 43.2                              | N/A  |
| xylene   | 4300             | 1100              | N/A                            | 11                                | N/A  |
| 1-methoxy-2-propanol                                     | 6600             | 13000             | N/A                            | N/A                               | N/A  |
| ethylbenzene   | 3500             | N/A               | N/A                            | 11                                | N/A  |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 1716.2           | 1465.4            | N/A                            | N/A                               | N/A  |

# Irritation/Corrosion

| Product/ingredient name   | Result               | Species                            | Score | Exposure                  | Observation |
|---|----------------------|------------------------------------|-------|---------------------------|-------------|
| Atty acids, c18-unsatd.,<br>dimers, polymers with tall-oil<br>fatty acids and<br>triethylenetetramine | Eyes - Irritant      | Mammal -<br>species<br>unspecified | -     | -                         | -           |
|   | Skin - Mild irritant | Mammal -<br>species<br>unspecified | -     | -                         | -           |
| xylene  | Eyes - Mild irritant | Rabbit                             | -     | 87 milligrams             | -           |
|   | Skin - Mild irritant | Rat                                | -     | 8 hours 60<br>microliters | -           |
| 1-methoxy-2-propanol  | Eyes - Mild irritant | Rabbit                             | -     | 24 hours 500<br>mg        | -           |
|   | Skin - Mild irritant | Rabbit                             | -     | 500 mg                    | -           |

### **Sensitisation**

| Product/ingredient name   | Route of exposure | Species                         | Result      |
|---|-------------------|---------------------------------|-------------|
| Atty acids, c18-unsatd.,<br>dimers, polymers with tall-oil<br>fatty acids and<br>triethylenetetramine | skin              | Mammal - species<br>unspecified | Sensitising |
| Amines, polyethylenepoly-,<br>triethylenetetramine fraction   | skin              | Mammal - species<br>unspecified | Sensitising |

### **Mutagenicity**

No known significant effects or critical hazards.

# **Carcinogenicity**

No known significant effects or critical hazards.

# Reproductive toxicity

- Fertility effects : No known significant effects or critical hazards.
- **Teratogenicity**

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# **SECTION 11: Toxicological information**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| xylene                  | Category 3 | -                 | Respiratory tract irritation |
| 1-methoxy-2-propanol    | Category 3 | -                 | Narcotic effects             |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | -                 | hearing organs |

#### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| xylene                  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |

#### Potential acute health effects

| Eye contact                      | Causes serious eye damage.   |
|----------------------------------|--|
| Inhalation                       | No known significant effects or critical hazards.  |
| Skin contact                     | Causes skin irritation. May cause an allergic skin reaction.   |
| Ingestion                        | No known significant effects or critical hazards.  |
| Symptoms related to the physical | al, chemical and toxicological characteristics   |
| Eye contact                      | Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| Inhalation                       | No specific data.  |
| Skin contact                     | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| Ingestion                        | Adverse symptoms may include the following:<br>stomach pains   |
| General                          | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  |
| Other information                | None identified.   |

# **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name       | Result                              | Species   | Exposure   |
|-------------------------------|-------------------------------------|---|------------|
| <b>x</b> ylene                | Acute LC50 8500 µg/l Marine water   | Crustaceans - Daggerblade<br>grass shrimp - Palaemonetes<br>pugio | 48 hours   |
|                               | Acute LC50 13400 µg/l Fresh water   | Fish - Fathead minnow -<br>Pimephales promelas                    | 96 hours   |
| ethylbenzene                  | Acute EC50 7700 µg/l Marine water   | Algae - Diatom - Skeletonema<br>costatum                          | 96 hours   |
|                               | Acute EC50 2.93 mg/l                | Daphnia   | 48 hours   |
|                               | Acute LC50 4.2 mg/l                 | Fish  | 96 hours   |
| Amines, polyethylenepoly-,    | Acute EC50 20 mg/l                  | Algae   | 72 hours   |
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# SECTION 12: Ecological information

| • | SECTION 12: Ecological information  |                      |         |          |  |
|---|---|----------------------|---------|----------|--|
| - | triethylenetetramine fraction   |                      |         |          |  |
|   |   | Acute EC50 31.1 mg/l | Daphnia | 48 hours |  |
|   |   | Acute LC50 330 mg/l  | Fish    | 96 hours |  |
|   | <b>Conclusion/Summary</b> : This material is toxic to aquatic life with long lasting effects. |                      |         |          |  |

# 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability                  |
|---|-------------------|------------|-----------------------------------|
| kylene<br>ethylbenzene<br>Amines, polyethylenepoly-,<br>triethylenetetramine fraction |                   |            | Readily<br>Readily<br>Not readily |

### **12.3 Bioaccumulative potential**

| Product/ingredient name                                     | LogPow | BCF         | Potential |
|---|--------|-------------|-----------|
| <b>x</b> ylene  | 3.12   | 8.1 to 25.9 | low       |
| 1-methoxy-2-propanol  | <1     | -           | low       |
| ethylbenzene  | 3.6    | -           | low       |
| Amines, polyethylenepoly-,<br>triethylenetetramine fraction | -2.65  | -           | low       |

| 12.4 Mobility in soil |                  |
|-----------------------|------------------|
| Soil/water partition  | : Not available. |
| coefficient (Koc)     |                  |
| Mobility              | : Not available. |

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other adverse effects : No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **13.1 Waste treatment methods**

| Product             |   |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. |
| Hazardous waste     | : Yes.  |
| Waste catalogue     |   |
| Waste code          | Waste designation   |
| 08 01 11*           | Waste paint and varnish containing organic solvents or other dangerous substances   |
| Packaging           |   |
| Methods of disposal | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered  |

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when recycling is not feasible.

# **SECTION 13: Disposal considerations**

| Type of packaging   | Waste catalogue   |   |  |  |
|---------------------|---|---|--|--|
| CEPE Guidelines     | 15 01 10*   | packaging containing residues of or contaminated by hazardous substances  |  |  |
| Special precautions | taken when<br>Empty conta<br>residues ma<br>container. I<br>thoroughly in | al and its container must be disposed of in a safe way. Care should be<br>handling emptied containers that have not been cleaned or rinsed out.<br>ainers or liners may retain some product residues. Vapour from product<br>ay create a highly flammable or explosive atmosphere inside the<br>Do not cut, weld or grind used containers unless they have been cleaned<br>internally. Avoid dispersal of spilt material and runoff and contact with<br>ays, drains and sewers. |  |  |

# **SECTION 14: Transport information**

|  | ADR/RID  | ADN   | IMDG  | IATA  |  |  |
|--|--|---|---|---|--|--|
| 14.1 UN number   | UN1263   | UN1263  | UN1263  | UN1263  |  |  |
| 14.2 UN proper<br>shipping name  | Paint  | Paint   | Paint. Marine pollutant<br>(fatty acids,<br>c18-unsatd., dimers,<br>polymers with tall-oil<br>fatty acids and<br>triethylenetetramine)  | Paint   |  |  |
| 14.3 Transport   | 3  | 3   | 3   | 3   |  |  |
| hazard class(es)   |  |   |   |   |  |  |
| 14.4 Packing<br>group  |  | 111   |   | 111   |  |  |
| 14.5<br>Environmental<br>hazards   | Yes.   | Yes.  | Yes.  | Yes. The<br>environmentally<br>hazardous substance<br>mark is not required. |  |  |
| Additional informa   | : The envi<br>sizes of<br><u>Hazard</u><br><u>Tunnel</u>   | ≤5 L or ≤5 kg.<br>identification number<br>code (D/E) |   |   |  |  |
| ADN  |  | ronmentally nazardous<br>≤5 L or ≤5 kg.               | substance mark is not requi   | red when transported in   |  |  |
| IMDG   | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg<br>Emergency schedules F-E, S-E |   |   |   |  |  |
| ΙΑΤΑ   | : The environmentally hazardous substance mark may appear if required by other transportation regulations.           |   |   |   |  |  |
| user upright and   |  | nd secure. Ensure that                                | <b>t within user's premises:</b> always transport in closed containers that are d secure. Ensure that persons transporting the product know what to do in of an accident or spillage. |   |  |  |
| <b>14.7 Transport in bulk</b> : Not ava<br>according to IMO<br>instruments |  | able.   |   |   |  |  |

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

### Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.

### **Ozone depleting substances**

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants Not listed.

#### Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

| c   |
|---|
| egulations  |
| ustrial emissions : Not listed<br>egrated pollution<br>vention and control) -                                 |
| ustrial emissions : Not listed<br>egrated pollution<br>vention and control) -<br>ter                          |
| national regulations  |
| nical Weapon Convention List Schedules I, II & III Chemicals  |
| listed.   |
| treal Protocol<br>listed.   |
| kholm Convention on Persistent Organic Pollutants<br>listed.  |
| erdam Convention on Prior Informed Consent (PIC)<br>listed.   |
| CE Aarhus Protocol on POPs and Heavy Metals   |
| listed.   |
| <ul> <li>This product contains substances for which Chemical Safety Assessments are stil required.</li> </ul> |

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | <ul> <li>ATE = Acute Toxicity Estimate<br/>GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and<br/>Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019<br/>No. 720 and amendments<br/>DMEL = Derived Minimal Effect Level<br/>DNEL = Derived No Effect Level<br/>EUH statement = GB CLP-specific Hazard statement<br/>N/A = Not available</li> </ul> |
|----------------------------|---|
|                            | PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number<br>SGG = Segregation Group<br>vPvB = Very Persistent and Very Bioaccumulative  |

# Procedure used to derive the classification

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Dam. 1, H318        | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Aquatic Chronic 2, H411 | Calculation method    |

# Full text of abbreviated H statements

| <b>⊮</b> 225 | Highly flammable liquid and vapour.                                |
|--------------|--|
| H226         | Flammable liquid and vapour.                                       |
| H302         | Harmful if swallowed.  |
| H304         | May be fatal if swallowed and enters airways.                      |
| H312         | Harmful in contact with skin.                                      |
| H314         | Causes severe skin burns and eye damage.                           |
| H315         | Causes skin irritation.  |
| H317         | May cause an allergic skin reaction.                               |
| H318         | Causes serious eye damage.   |
| H319         | Causes serious eye irritation.                                     |
| H332         | Harmful if inhaled.  |
| H335         | May cause respiratory irritation.                                  |
| H336         | May cause drowsiness or dizziness.                                 |
| H373         | May cause damage to organs through prolonged or repeated exposure. |
| H411         | Toxic to aquatic life with long lasting effects.                   |
| H412         | Harmful to aquatic life with long lasting effects.                 |
| EUH071       | Corrosive to the respiratory tract.                                |

# Full text of classifications

| Acute Tox. 4                   | ACUTE T  | OXICITY - Ca | ategory 4              |                   |            |        |       |
|--------------------------------|----------|--------------|------------------------|-------------------|------------|--------|-------|
| Aquatic Chronic 2              | LONG-TE  | ERM (CHRON   | IC) AQUATIC HAZAF      | RD - Category 2   |            |        |       |
| Aquatic Chronic 3              | LONG-TE  | ERM (CHRON   | IC) AQUATIC HAZAF      | RD - Category 3   |            |        |       |
| Asp. Tox. 1                    | ASPIRAT  | ION HAZARE   | D - Category 1         |                   |            |        |       |
| Eye Dam. 1                     | SERIOUS  | S EYE DAMA   | GE/EYE IRRITATION      | - Category 1      |            |        |       |
| Eye Irrit. 2                   | SERIOUS  | S EYE DAMA   | GE/EYE IRRITATION      | - Category 2      |            |        |       |
| Flam. Liq. 2                   | FLAMMA   | BLE LIQUIDS  | S - Category 2         |                   |            |        |       |
| Flam. Liq. 3                   |          |              | S - Category 3         |                   |            |        |       |
| Skin Corr. 1B                  |          |              | RITATION - Category    |                   |            |        |       |
| Skin Irrit. 2                  |          |              | RITATION - Category    | 2                 |            |        |       |
| Skin Sens. 1                   |          | NSITISATION  | <b>U</b> ,             |                   |            |        |       |
| Skin Sens. 1A                  |          |              | I - Category 1A        |                   |            |        |       |
| STOT RE 2                      |          |              |                        | EPEATED EXPOSURE  |            |        |       |
| STOT SE 3                      | SPECIFIC | C TARGET O   | RGAN TOXICITY - SI     | NGLE EXPOSURE - C | Category 3 |        |       |
| Date of printing               | :        | 05.04.2024   |                        |                   |            |        |       |
| Date of issue/ Date of         | :        | 05.04.2024   |                        |                   |            |        |       |
| revision                       |          |              |                        |                   |            |        |       |
| Date of previous issue         | • :      | 21.04.2023   |                        |                   |            |        |       |
| Date of issue/Date of revision | on       | : 05.04.2024 | Date of previous issue | : 21.04.2023      | Version    | : 1.03 | 17/18 |

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Barrier 90 Comp B

# **SECTION 16: Other information**

Version

: 1.03

# Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.